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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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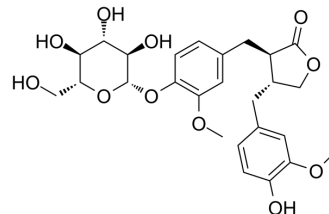
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Matairesinoside

Cat. No.:	HY-N7996
CAS No.:	23202-85-9
Molecular Formula:	C ₂₆ H ₃₂ O ₁₁
Molecular Weight:	520.53
Target:	Bacterial; Fungal
Pathway:	Anti-infection
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (192.11 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	1.9211 mL	9.6056 mL	19.2112 mL
				5 mM	0.3842 mL	1.9211 mL	3.8422 mL
				10 mM	0.1921 mL	0.9606 mL	1.9211 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (4.80 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (4.80 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.80 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	Matairesinoside is a lignan with antibacterial and antioxidant activities. Matairesinoside also shows virus-cell fusion inhibitory activity ^{[1][2]} .
In Vitro	Matairesinoside shows high virus-cell fusion inhibitory activity with the fusion inhibition of 46.7% ^[1] . Matairesinoside shows prominent free radical scavenging activity in the DPPH assay, with the IC ₅₀ is 2.19 μg/mL ^[2] . Matairesinoside is most active against <i>Pseudomonas aeruginosa</i> (MIC of 0.001 mg/mL) ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Dung Gun Lee, et al. Isolation of virus-cell fusion inhibitory components from the stem bark of *Styrax japonica* S. et Z. *Arch Pharm Res.* 2010 Jun;33(6):863-6.
- [2]. Yashodharan Kumarasamy, et al. Biological Activity of Lignans from the Seeds of *Centaurea scabiosa*. *Pharmaceutical Biology (Lisse, Netherlands)* (2003), 41(3), 203-206.
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Caution: Product has not been fully validated for medical applications. For research use only.

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